

# Curriculum vitae

## • PERSONAL INFORMATION

Name: Susan Sadeghi

Specialty: Analytical Chemistry

Academic Status: Professor

Address: Department of Chemistry

Faculty of Science, P.O.Box 414

University of Birjand

Birjand, Iran

Tel.: (+98) 56-32202203-4; (+98)56-32202065

Fax: (+98) 56-32202008

E-mail: [ssadeghi@birjand.ac.ir](mailto:ssadeghi@birjand.ac.ir)

or [chemsad2001@yahoo.com](mailto:chemsad2001@yahoo.com)

## • EDUCATIONAL RECORDS

B.Sc in Chemistry, University of Birjand, Birjand, Iran, 1986

M.Sc in Analytical Chemistry, University of Tehran, Tehran, Iran, 1989

Ph. D in Analytical Chemistry, University of Shahid Beheshti, Tehran, Iran, 1998.

## • EDUCATIONAL RECORDS

Lecturer: University of Birjand, Birjand, Iran, 1989-1994.

Assistant Professor: University of Birjand, Birjand, Iran, 1998- 2003.

Visiting Assistant Professor: University of Carleton, Ottawa, Canada, 2003

Associate Professor: University of Birjand, Birjand, Iran, 2003-2009.

Professor: University of Birjand, Birjand, Iran, Since 2010.

## • JOB EXPERIENCES

- Director of research , Faculty of Science, University of Birjand, 2000-2002

- Research manager, University of Birjand, 2004-2005

- Chairman of 14<sup>th</sup> Iranian conference of Analytical chemistry, University of Birjand, 2005

- Member of organizing and scientific committee of 5<sup>th</sup> probability and random process conference, , University of Birjand, 2005

- Member of organizing and scientific committee of 14<sup>th</sup> conference of crystallography and mineralogy of Iran, University of Birjand, 2006

- Chairman of the special committee on science, 2012-2014

### • COURSES TAUGHT

Analytical Chemistry I and II (B.Sc.)  
Instrumental Analysis (B.Sc.)  
Advanced Analytical Chemistry (M.Sc.)  
Spectrochemical Analysis I and II (M.Sc.)  
Analytical Electrochemistry (M.Sc.)  
Electrochemistry in non-aqueous solutions (Ph.D)  
New Instrumental methods of Analysis (Ph.D)

### • AWARDS

-Distinguished Researcher, University of Birjand, 2001-2005, 2011, 2013  
-Distinguished Researcher of University of Birjand, Award of the Iranian Ministry of Science, Research and Technology, 2003  
-Distinguished teacher, University of Birjand, 2003  
- Distinguished Researcher of University of Birjand, Award of the 4<sup>th</sup> National Ferdowsi Festival, 2003  
-Distinguished Researcher of University of Birjand, Award of the of the Iranian Ministry of Science, Research and Technology, 2005

### • RESEARCH INTERESTS

-Solid-phase extraction, solid phase microextraction and development of liquid-liquid microextraction based on ionic liquids  
-Molecularly (ionic) imprinting polymers  
-Potentiometric and voltammetric ion (molecule) selective sensors  
-Ion Transport through Liquid Membranes  
-Screen printed electrodes  
-Modified magnetic nanoparticles and nanocomposites in separation

### • SUPERVISION

Supervisor of 60 M.Sc. graduated students.  
Supervisor of 5 Ph.D. graduated students and 3 current Ph.D. students

### • RESEARCH PROJECTS

-Removal of acid dyes from industrial waste waters using organic modified Bentonite  
-Removal of heavy metal ions from aqueous solution using Mulberry leaves biomaterial  
- Extraction and identification of constituents of Crambe oil  
-Determination and preconcentration of trace uranium using modified octadecyl silica disk by spectrophotometry, 2002.

• LIST OF SELECTED PUBLICATIONS

A nanocomposite/crude extract enzyme-based xanthine biosensor, *S. Sadeghi, E. Fooladi, E. Malekaneh, E., Anal. Biochem.* 464 (2014) 51–59.

A new amperometric biosensor based on Fe<sub>3</sub>O<sub>4</sub>/Polyaniline/Laccase/Chitosan biocomposite-modified carbon Ppaste electrode for determination of catechol in Tea leaves, *S. Sadeghi, E. Fooladi, E. Malekaneh, Appl. Biochem. Biotechnol.*, DOI: 10.1007/s12010-014-1380-6

A New Amperometric Benzaldehyde Biosensor Based on Aldehyde Oxidase Immobilized on Fe<sub>3</sub>O<sub>4</sub>-Graphene Oxide/Polyvinylpyrrolidone/ Polyaniline Nanocomposite, *S. Sadeghi, E. Fooladi, E. Malekaneh, Electroanalysis*, DOI: 10.1002 /elan.201400420

Sensitive detection of sulfasalazine at screen printed carbon electrode modified with functionalized multiwalled carbon nanotubes, *S. Sadeghi, A. Garmroodi, J. Electroanal. Chem.*, 727, (2014) 171-178.

Solid-phase extraction and HPLC-UV detection of Cr(III) and Cr(VI) using ionic liquid-functionalized silica as a hydrophobic sorbent, *S. Sadeghi, A. Z. Moghaddam, Anal. Methods*, 6,13 (2014) 4867-4877.

Solid-Phase Extraction of Florfenicol from Meat Samples by a Newly Synthesized Surface Molecularly Imprinted Sol-Gel Polymer, *S. Sadeghi, M. Jahani, Food Anal. Methods* (2014) 7:2084–2094.

A highly sensitive and selective electrochemical sensor for determination of Cr(VI) in the presence of Cr(III) using modified multi-walled carbon nanotubes/ quercetin screen-printed electrode, *S. Sadeghi, A. Garmroodi, Mater. Sci. Eng. C* 33 , 8 (2013) 4972-4977.

Design and construction of a new modified screen printed sensor for voltammetric determination of Molybdenum (VI) ions, *S. Sadeghi, A. Garmroodi, Electroanalysis*, 25,1 (2013) 323-330.

Voltammetric sensor based on carbon paste electrode modified with molecular imprinted polymer for determination of sulfadiazine in milk and human serum, *S. Sadeghi, A. Motaharian, Mater. Sci. Eng. C*, 33, 8 (2013) 4884-4891.

Selective solid-phase extraction using molecular imprinted polymer sorbent for the analysis of Florphenicol in food samples, *S. Sadeghi, M. Jahani, Food Chem.* 141,2 (2013)1242-1251.

Preparation of Ag-Nanoparticles/Ionic-Liquid Modified Screen-Printed Electrode and Its Application in the Determination of Metronidazole, *S. Sadeghi, M., Hemmati, A. Garmroodi, Electroanalysis*, 25,1 (2013) 316-322.

**Preconcentration and speciation of trace amounts of chromium in saline samples using temperature-controlled microextraction based on ionic liquid as extraction solvent and determination by electrothermal atomic absorption spectrometry, S. Sadeghi, A. Zeraatkar Moghaddam, A. Talanta 99(2012) 758-766.**

**Magnetic nanoparticles with an imprinted polymer coating for the selective extraction of uranyl ions, S. Sadeghi, E. Aboobakri, Microchim. Acta 178 (1-2) (2012) 89-97.**

**Electroanalytical determination of sulfasalazine in pharmaceutical and biological samples using molecularly imprinted polymer modified carbon paste electrode, S. Sadeghi, A. Motaharian, A.Z. Moghaddam, Sens. Actuators B, 168, (2012) 336-344.**

**Surface modified magnetic Fe<sub>3</sub>O<sub>4</sub> nanoparticles as a selective sorbent for solid phase extraction of uranyl ions from water samples S. Sadeghi, H. Azhdari, H. Arabi, A. Z. Moghaddam, J. Hazard. Matter. 215-216 (2012) 208-216.**

**Selective transport of Cu<sup>2+</sup> ions through bulk liquid membrane system mediated by erythromycin Ethyl Succinate, S. Sadeghi, M. Jahani, E. Ghiamati, Sep. Sci. Technol. 46 (2) (2011) 215-223. Corrigendum: 46 (4), pp. 694**

**Polymeric membrane coated graphite cesium selective electrode based on 4',4'' (5') di-tert-butyl di-benzo-18-crown-6, S. Sadeghi, F. Fathi, J. Inc. Phenom. 67 (1-2) (2010) 91-98**

**Synthesis and effect of some parameters through reverse micelles route of iron oxide nanoparticles, H. Arabi, S. Nateghi, S. Sadeghi, Diffus. Defect Data Part. B: Solid State Phenomena 152-153 (2009) 205-208.**

**New copper(II) ion-selective membrane electrode based on erythromycin ethyl succinate as a neutral ionophore, S. Sadeghi, M. Jahani, Anal. Letters 42 (13) (2009) 2026-2040**

**Solid phase extraction using silica gel modified with murexide for preconcentration of uranium (VI) ions from water samples, S. Sadeghi, E. Sheikhzadeh, J. Hazard. Mater. 163 (2-3)(2009) 861-868**

**Uranyl ion-selective optical test strip, S. Sadeghi, S. Doosti, Dyes Pigments 80 (1) (2009) 125-129**

**Novel PVC membrane bulk optical sensor for determination of uranyl ion S. Sadeghi, S. Doosti, Sens. Actuators, B: Chemical 135 (1)(2008) 139-144**

**Solid phase extraction using silica gel functionalized with Sulfasalazine for preconcentration of uranium (VI) ions from water samples, S. Sadeghi, E. Sheikhzadeh, Microchim. Acta, 163 (3-4) (2008) 313-320**

Synthesis of a new ion imprinted polymer material for separation and preconcentration of traces of uranyl ions, *S. Sadeghi, A.R. Akbarzadeh, Reactive & Functional polymers*, 67 (2007) 966 -977.

Potentiometric sensing of Levamisole hydrochloride based on molecularly imprinted polymer, *S. Sadeghi, F. Fathi, J. Abbasifar, Sens. Actuators B*, 122( 2007) 158 - 164.

PVC – based Cu (II) –Schiff base Complex membrane coated graphite electrode for determination of triiodide ion, *S.Sadeghi, A.Gafarzadeh, J. Anal. Chem.* 61 (2006) 677-682.

Spectrophotometric determination of Rifampicin through chelate formation and charge transfer complexation in preparation and biological fluids, *S. Sadeghi, E. Karimi, Chem. Pharm. Bull.*, 54, 8 (2006) 1107-1112.

Novel triiodide ion –selective polymeric membrane electrodes based on some transition metal –Schiff base complexes, *S. Sadeghi, F. Fathi, Sens. Actuators B*, 114 (2006) 928 – 935.

Copper (II) ion selective liquid membrane electrode based on new Schiff base carrier, *S. Sadeghi, M. T. Vardini, Anali de chimica*, 96 (1-2) (2006) 65-74.

Development of a molecularly imprinted polymer based on solid phase extraction of levamisole hydrochloride from tablet dosage form, *S. Sadeghi, J. Abbasifar, A. R Akbarzadeh*, Submitted.

Selective transport of copper (II) ions across a liquid membrane mediated by Piroxicam, *S. Sadeghi, D. MohammadZadeh, J. Shakhs Imampur, Anal. Bioanal. Chem.*, 383 (2005) 261-267.

Surface Plasmon resonance Sensor for Hg(II) detection by Binding Interactions with Polypyrrole and 2- Mercaptobenzothiazole, *J.C.C. Yu, E. P.C.Lai, S. Sadeghi, Sens. Actuators B*, 101(2004) 236-241.

Molecularly Imprinted Solid phase Extraction for the Screening of Antihyperglycemic Biguanides; *Sherry Y. Feng, Edward.P.C.Lai, Ewa Dabeck – Zlotorzynska, S. Sadeghi, J. Chromatogra. A*; 1027 (2004) 155-160.

Triiodide–Selective Polymeric Membrane electrodes based on Schiff base Complexes of Cu(II) and Fe(III)., *S. Sadeghi, M. Gafarzadeh, M.A. Naseri, H. Sharghi, Sens. Actuators B*, 98 (2004) 174-179.

Study of Complex formation of n- Alkyl ammonium Cations by Dibenzo-18 Crown-6, Dibenzo- 21-Crown-7 and Dibenzo-24 Crown-8 in Acetonitrile, Nitromethane and nitrobenzene solvents and their Binary Mixtures using Conductometric Method, *S. Sadeghi, M. Sh. Valavi, Polish. J. Chem.* 77 (2003) 1175-1184 .

Copper Ion Selective electrodes based on some Schiff-base Derivatives, *S. Sadeghi, E.Slahi, M.A.Naseri, H. Naeimi, H. Sharghi, A. Shameli., Electroanalysis*, 15, No 15- 16 (2003) 1327- 1333.

Solid-phase extraction-spectrophotometric determination of uranium (VI) in natural waters. *S. Sadeghi, D. Mohammadzadeh, Y. Yamini, Anal. Bioanal. Chem.* 375(5) (2003) 698-702.

Quantitative determination of diazepam in pharmaceutical preparation by using a new extractive-spectrophotometric method. *S. Sadeghi, R. Takjoo, S. Haghgoo, Anal. Lett.* 35(13) (2002) 2119-2131.

Triiodide PVC Membrane Electrodes Based on Charge-Transfer Complexes. *S. Sadeghi, G. R. Dashti, Anal. Chem.* 74(11) (2002) 2591-2595.

Lead-selective poly(vinyl chloride) membrane electrode based on piroxicam as a neutral carrier. *S. Sadeghi, G. R. Dashti, M. Shamsipur, Sens. Actuators, B: Chemical* 81(2-3) (2002) 223-228.

Lead (II)-selective membrane electrode based on tetraphenylporphyrin. *S. Sadeghi, M. Shamsipur, Anal. Lett.* 33(1) (2000) 17-28.

Iodide Ion Selective PVC Membrane Electrode Based on Recently Synthesied Salen – Mn(II) Complex, *M. Shamsipur, S. Sadeghi, H. Naeimi, H. Sharghi, Polish J. Chem.* 74 (2000) 231-238.

Molecular complex formation between some azacrown ethers and 2,4,6-trinitrophenol. *S. Sadeghi, N. Alizadeh, M. Shamsipur, J. Inc. Phenomen. Macrocyc. Chem.* 34(4) (1999) 431-443.

Spectroscopic study of the complexation of 5,6,14,15-dibenzo-1,4-dioxa-8,12-diazacyclopentadeca-5,14-diene with some polynitrophenol derivatives in chloroform solution. *S. Sadeghi, M. Shamsipur, J. Inc. Phenomen. Macrocyc. Chem.* 32(4) (1998) 439-451.

A new extractive-spectrophotometric method for the determination of ketoconazole in pharmaceutical preparations. *S. Sadeghi, M. Shamsipur, Anal. Lett.* 31(15) (1998) 2691-2705.

Spectroscopic studies of the complexation of Iodine wirth 5,6,14,15-dibenzo-1,4-dioxa-8,12-diazacyclopentadeca-5,14. *S. Sadeghi, M. Shamsipur, M. Elahi, Polish J. Chem.,* 71(1997) 1594-1602.

A new dyed ece track identification method for nuclear particle detection, *M. Sohrabi , S. Sadeghi, Int. Radiat. Appl. Inst.: Part D:*, 17,4 (1990) 547 – 555.

**A new development of dyed ECE tracks for radiation dosimetry, S. Sohrabi , S. Sadeghi  
Rad. Protect. Dos. 34,1 – 4 (1990) 5 -8.**